

What is claimed is:

1. A method for remediating a material contaminated with a halogenated aromatic compound comprising introducing a culture of *Dehalococcoides ethenogenes* strain 195 into a material contaminated with a halogenated aromatic compound so that said strain removes at least one halogen group from the aromatic compound thereby remediating the material.
2. The method of claim 1, wherein the culture comprises a mixed culture.
3. The method of claim 1, wherein the remediation is carried out *in situ* or *ex situ*.
4. The method of claim 1, further comprising adding a simple halogenated compound into the contaminated material.
5. A method for enhancing a bioremediation process of a contaminated material comprising introducing into a contaminated material, wherein said material contains a dehalogenating organism, an effective amount of a simple halogenated compound so that the growth of the organism is stimulated or supported thereby enhancing the bioremediation process of the contaminated material.
6. The method of claim 5, wherein the dehalogenating organism is *Dehalococcoides ethenogenes* strain 195.
7. The method of claim 5, further comprising adding an electron donor.

8. A kit for enhancing a bioremediation process of a contaminated material comprising a simple halogenated compound.